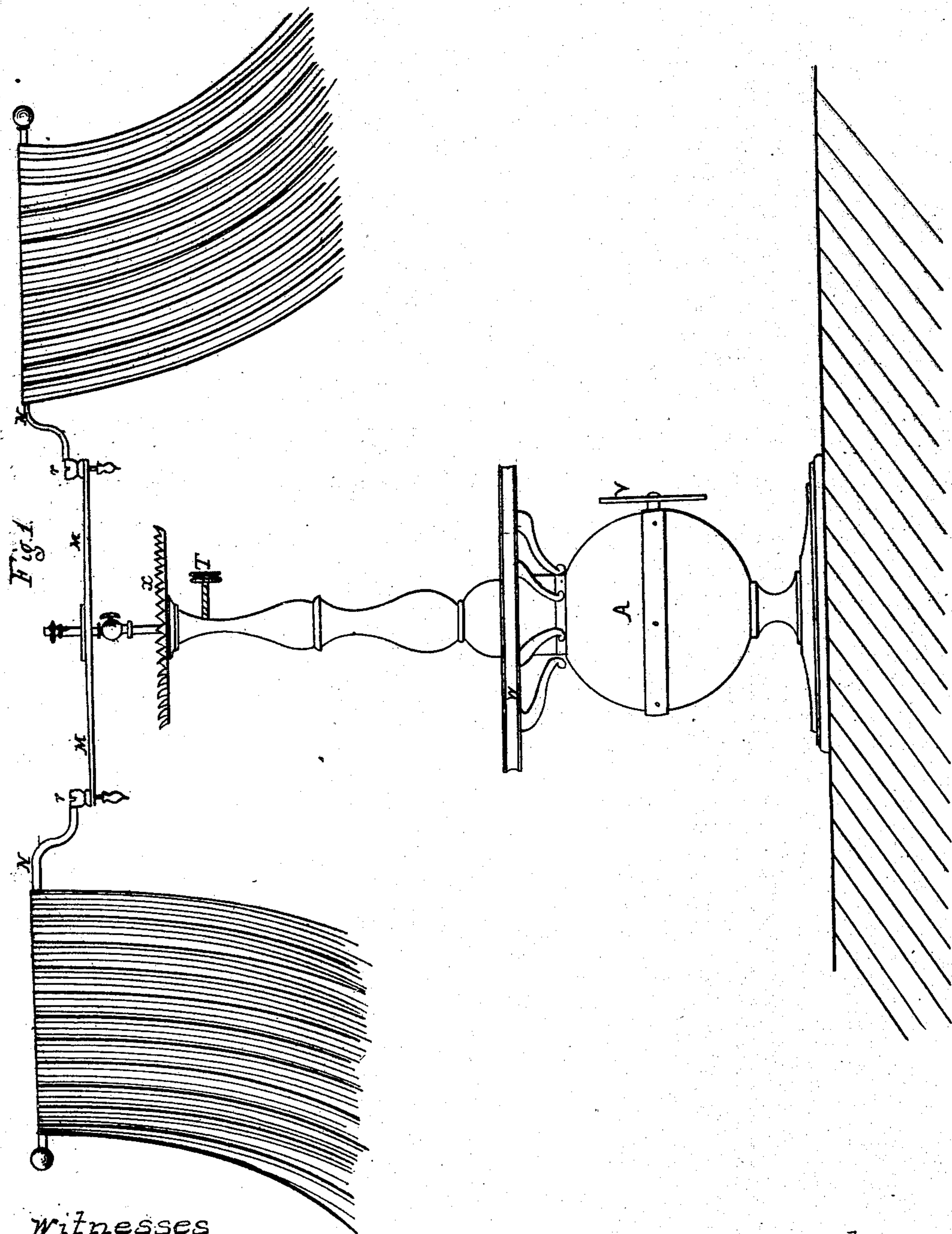


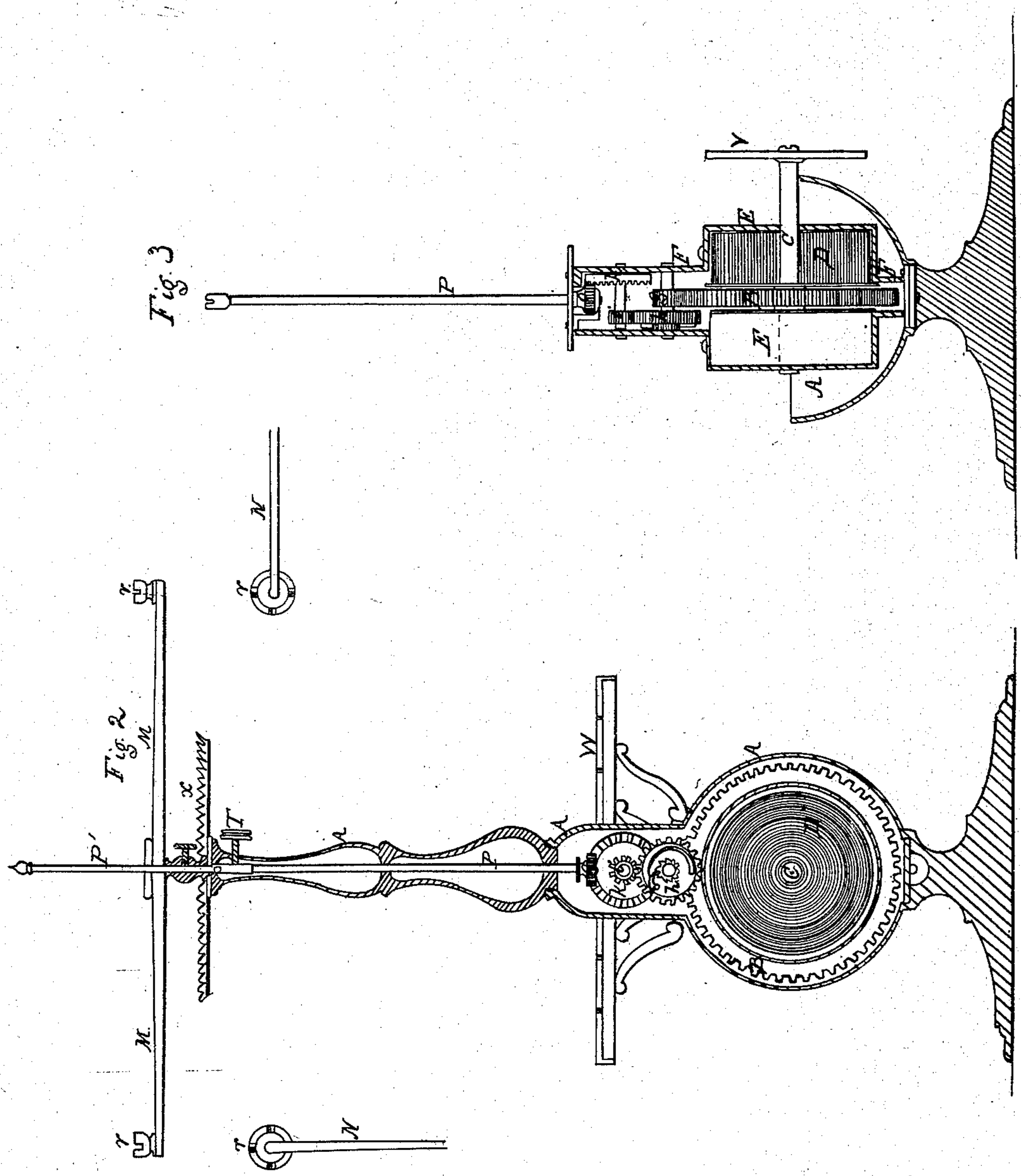
T. W. Carmichael.
Fan, Table-Caster & Lamp-Stand.
Nº 74303 *Patented Feb. 11, 1868.*



witnesses
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W. H. Brothers

Inventor
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Witnesses

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THOMAS W. CARMICHAEL, OF INDIANAPOLIS, INDIANA.

Letters Patent No: 74,303, dated February 11, 1868.

IMPROVED AUTOMATIC FAN, TABLE-CASTER, AND LAMP-STAND.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS W. CARMICHAEL, of Indianapolis, in the county of Marion, and State of Indiana, have invented a new and useful combined "Automatic Fan, Table-Caster, and Candle-Stand;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making part of this specification.

My invention relates to the combination of an automatic fan or fly-brush with a cruet-stand or caster and a candle-stand, in a single article of table-furniture; and consists in a hollow ornamental stand, within which suitable gearing, driven by springs, is made to revolve a vertical shaft carrying horizontal arms, to which fans or fly-brushes are attached. A caster-frame or cruet-rack surrounds the stem, the top of which is surmounted by a bracket, for holding a candle or lamp.

Figure 1 is an elevation of the device.

Figure 2 is a vertical section through the centre of the stand, showing the gearing. The detached figures are top views of the cups on the ends of arms M, and part of the fan-arms N.

Figure 3 is an edge view of the gearing, showing the bottom of the stand in section, and the upper part removed.

A is the hollow stand, within which the gearing and springs are arranged that actuate the fans. F is the framework, to which the gearings and springs are attached, and is so arranged that it may be readily removed when required. The master-wheel B is fixed on the shaft C, and the inner ends of springs D are also secured to shaft C. The end of shaft C projects through the shell of the stand A, and is furnished on the end with a wheel, V, that serves as a key by which to wind up the springs. The outer ends of springs D are made fast to the rim of the cases E, in which they are enclosed, and these cases are secured to the frame F. A system of wheels and pinions, g, h, i, k, o, communicate motion from wheel B to vertical shaft P P', to the top section of which arms M are attached, that carry the fans on the supplementary arms N. The ends of arms M are furnished with little cups, r, that are pierced through the bottom, to receive the ends of arms N, which are bent at a right angle, and are secured thereto by a nut below the cup, to keep the fans from being thrown out by the rapid revolution of the machine. The cups r are notched on the edge of the rim, to receive the arm N, as shown in the detached figures in fig. 2, the object being to provide a convenient means of setting the fans at any desired angle, in order to increase or diminish the circle described by them. The upper end of shaft P is furnished with a coupling-socket, which is situated just below the top of the stand A, to receive the lower end of the upper section P', and is arranged in this manner, so that the upper section, that carries the arms M and fans, may be readily attached or detached. A set-screw, T, near the top of stand A, serves the double purpose of a brake to regulate the speed of the fans, and also as a means to hold the shaft P, when winding up the apparatus, to effect which, the screw is turned in against the shaft. The wheel h, fig. 2, is furnished with a ratchet and spring-pawl, like an ordinary clock-movement, to retain the springs when wound up. A wheel, V, on the outer end of shaft C, serves as a convenient means to wind up the springs, and being readily accessible, very little trouble is experienced in keeping the device running any desired length of time. The arms M are attached to the shaft P' by means of a socket that slides on the shaft, and is secured thereto by means of a set-screw, by which the arms and fans may be set on the shaft at any desired height. W is a cruet-stand or rack, arranged to revolve around the stem of stand A, as in the common table-caster. X is a bracket, fixed to the top of stand A, on which to set a candle or lamp. When used as a candle-stand, the upper section P' of the shaft, and the arms M and fans, are to be removed, and, when wound up, the device is kept from running down by turning the set-screw T in against the shaft P. When not in use, the fans may be turned in against the arms M, and will thus occupy but little room.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The within-described device for operating the fans N automatically, in combination with the cruet-stand W and candle-stand X, all arranged and operating substantially as set forth.

THOMAS W. CARMICHAEL.

Witnesses:

O. F. MAYHEW,
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